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ABSTRACT OF THE DISCLOSURE

Disclosed are resins, resin-protein/peptide complexes and methods for purifying proteins and peptides using said resins. The resins described herein are useful for the binding of a selected protein or peptide, particularly from an aqueous medium such as a fermentation broth, by hydrophobic interactions between the resin and the selected protein or peptide. The resin is characterized by the fact that it contains ionizable ligands and/or functionalities which are uncharged at the pH of binding the target protein or peptide, thereby facilitating hydrophobic interactions, and charged at the pH of desorption, thereby disrupting the established hydrophobic interaction between the resin and the target protein or peptide. More particularly, the present invention is directed to the use of the described resins in the purification of recombinant enzyme products such as proteases, for example, chymosin or subtilisin.

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